



Brian E. Kiser Executive Director

Dana CaseProgram Administrator

Mission Statement

To accelerate the expansion of sustainable broadband access and adoption in the Commonwealth by determining the characteristics of broadband availability and use in Kentucky, and promoting the value of broadband to improve the lives of citizens.









West Region Broadband Work Group







- Abby Caldwell, KCADD
- Brad Davis, Purchase ADD
- > Jennifer Beck-Walker, Purchase ADD
- > Jiten Shah, Green River ADD
- Sheryl Chino, Green River ADD
- Chris Sutton, Pennyrile ADD
- Jason Vincent, Pennyrile ADD





Mapping and Planning



Bob Lois Program Manager

Bill Bates Project Manager

Wendall McCarty
Outreach Manager



Derek Murphy Project Manager





Workshop Agenda

1. Introduction 10:00am-10:20am

2. Project Area Analysis 10:20am-11:20am

3. Project Area Priorities Identification 11:20am-12:20pm

4. Lunch Break 12:20pm-1:15pm

5. Plan Development 1:15pm-2:15pm

6. Networking and Debriefing Session 2:15pm-3:00pm









Where we have been:

- October 2010 Grant received for Broadband Outreach and Development – Office Created
- <u>Broadband Map</u> created with Provider submitted Data updated every 6 months ~76% of State Providers participate
- Fall 2010 -- Survey 1 "Broadband Availability" 1400 +/- responses
- March 2012 -- Survey 2 -- "Broadband Utilization" 6000 +/- responses





Where we have been:

- Two reports:
 - ✓ "Regional Broadband Utilization Analysis in the Commonwealth of Kentucky"
 November 2011
 - ✓ "Utilization and Impact of Broadband for Businesses, Organizations and Households" May 2012
- Pilot Project Community Action Kentucky Launched
- Central Planning Session Regional Efforts Begin
- And Now Regional Planning Work Shops Generate buy-in and commitment to impact broadband availability, adoption or utilization priorities in 5 Regional Project Areas





Regional Planning Work Shops:

- 1.) The Regions Established by group consensus during the CPS in May -- combining current ADD boundaries to ensure that new Regions were made strategically.
- 2.) Goals, Plans and Statement of Work have been developed by Regional Workgroups -- UNIQUE TO EACH REGION
- 3.) And now, the most important part of the planning project Identify and prioritize key issues facing the Project Area and begin to operationalize Project Area goals into action plans

This is where we all can make a difference!





Regional Plans:

- 1.) Specific for the needs within the Region
- 2.) Outlines a specific strategy to achieve the goals





Purpose of Regional Plans:

- 1.) Promote broadband awareness and adoption
- 2.) Promote investments in broadband infrastructure
- 3.) Enlist involvement of local and regional stakeholders
- 4.) Engage the providers in the Commonwealth.





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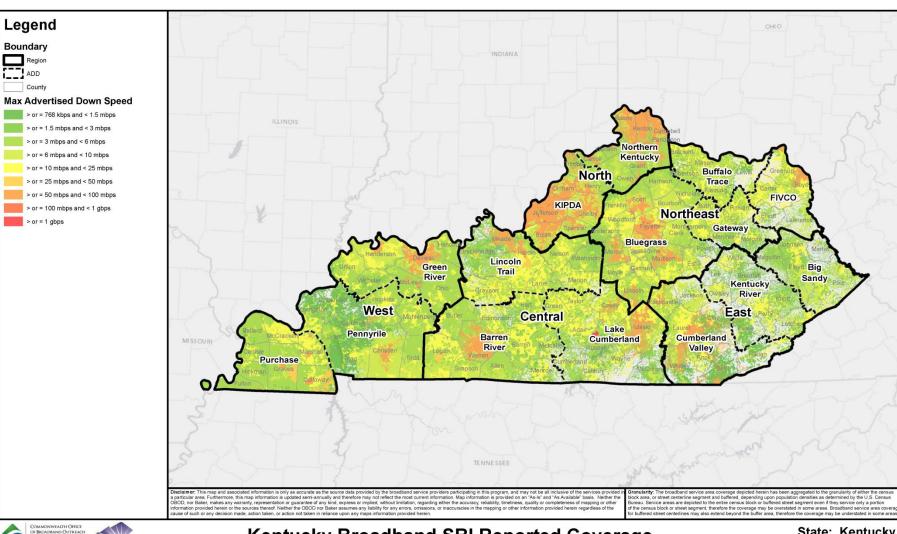
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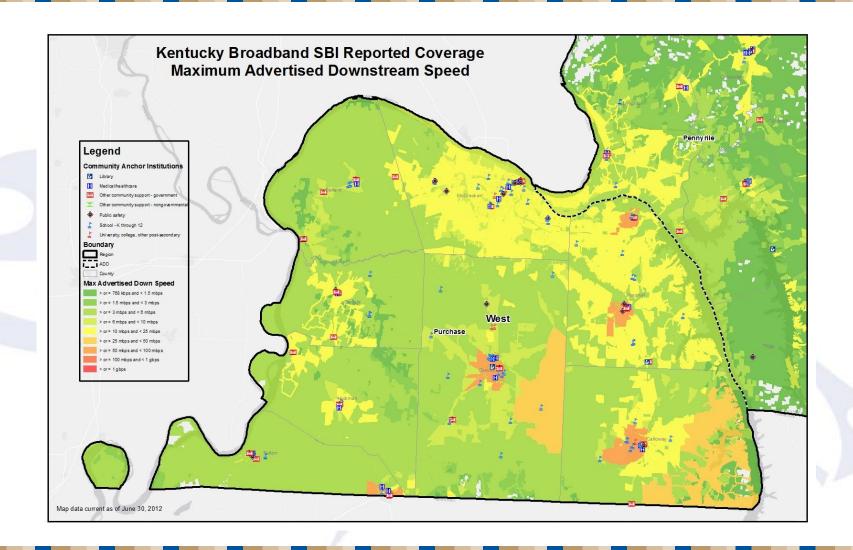




Baker

BROADBAND KY









Bureau. Service areas are depicted to the erforce consustance upon population densities as determined by the O.S. Census Bureau. Service areas are depicted to the erforce census block or buffered street segment even if they service only a proteoverage of the census block or street segment, therefore the coverage may be overstated in some areas. Broadband service area coverage for buffered street contenties may also extend beyond the buffer area, therefore the coverage may be understated in some areas.

Legend Increase in Maximum Advertised **Download Speed Tier** June 2010 - June 2012 No Change Northern Kentucky KIPDA Bluegrass Lincoln Green Trail **Boundary** River Sandy Kentucky Region West Edmonson Central Lake Pulaski County Pennyrile Barren Cumberland Cumberland MISSOURI River Barren Meteali Valley Purchase



Kentucky Broadband Increase in Maximum Advertised Download Speed Tier

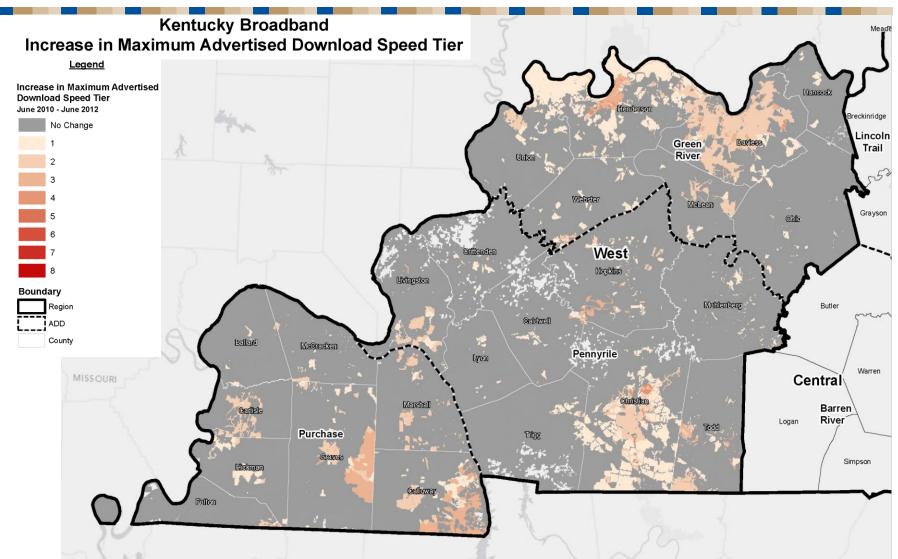
articular area. Furthermore, this map information is updated semi-annually and therefore may not reflect the most current information. Map infor

ause of such or any decision made, action taken, or action not taken in reliance upon any maps information provided herein

OD, nor Baker, makes any warranty, representation or guarantee of any lind, express or implied, without limitation, regarding either the accuracy, reliability, timeliness, quality or committed the provided herein or the sources thereof. Neither the OBOD nor Baker assumes any liability for any errors, omissions, or inaccuracies in the mapping or other information provided herein or the sources thereof. Neither the OBOD nor Baker assumes any liability for any errors, omissions, or inaccuracies in the mapping or other information provided herein or the sources thereof.









Legend

Increase in Number of SBI Reported Providers by County June 2010 - June 2012

No Change

3 - 4

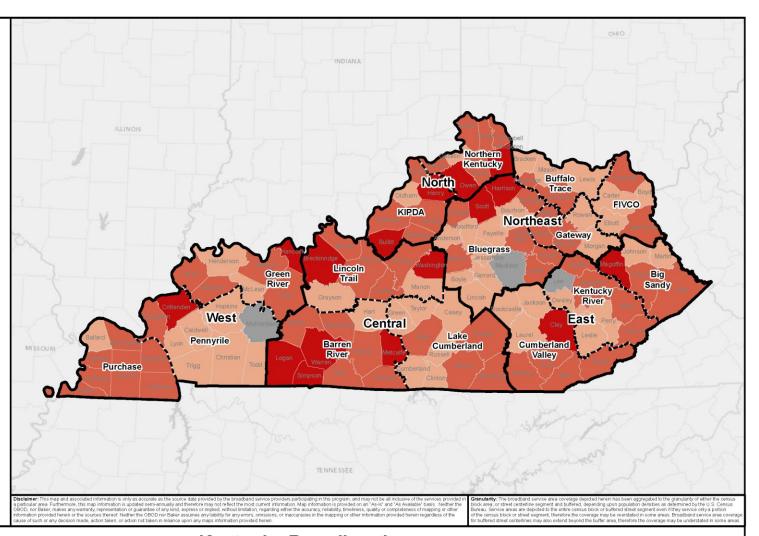
3 - 4

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Boundary Region

ADD

County

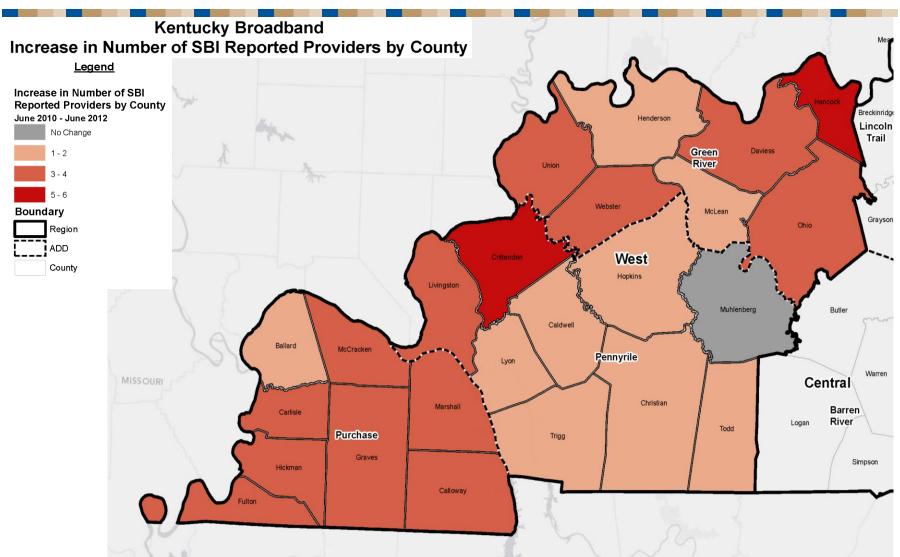




Kentucky Broadband
Increase in Number of SBI Reported Providers by County









Legend **Cable Modem Transmission**

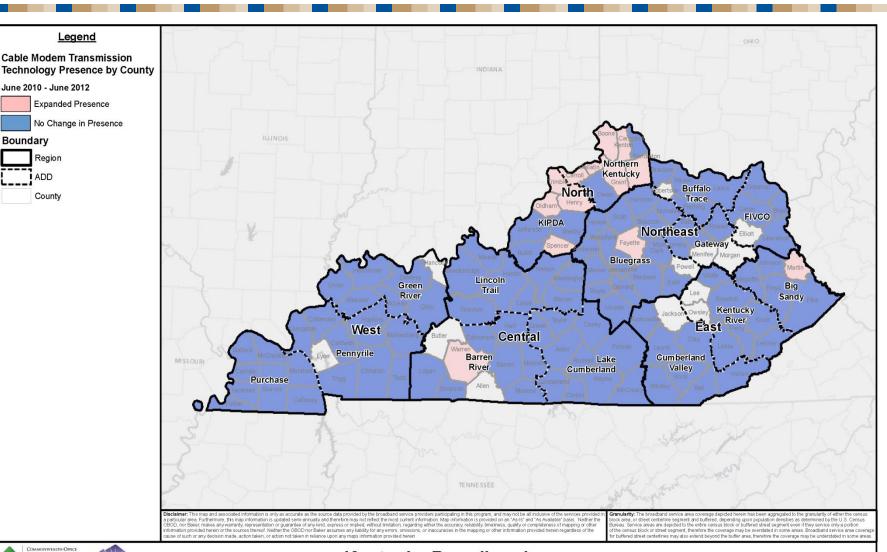
> Expanded Presence No Change in Presence

June 2010 - June 2012

Region

County

Boundary

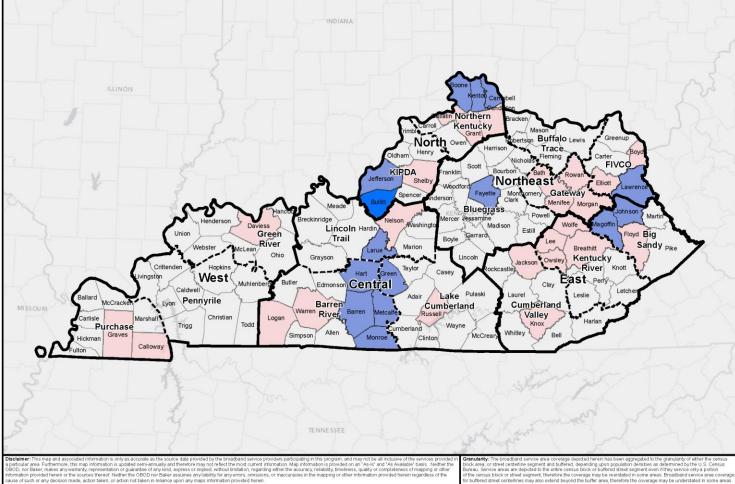




Kentucky Broadband SBI Reported Cable Modem Transmission Technology Presence by County



Legend Fiber Transmission Technology Presence by County June 2010 - June 2012 No Longer Present New Presence No Change in Presence **Boundary** Region County River Webster







Kentucky Broadband SBI Reported Fiber Transmission Technology Presence by County



Legend

Fixed Wireless Transmission Technology Presence by County

June 2010 - June 2012

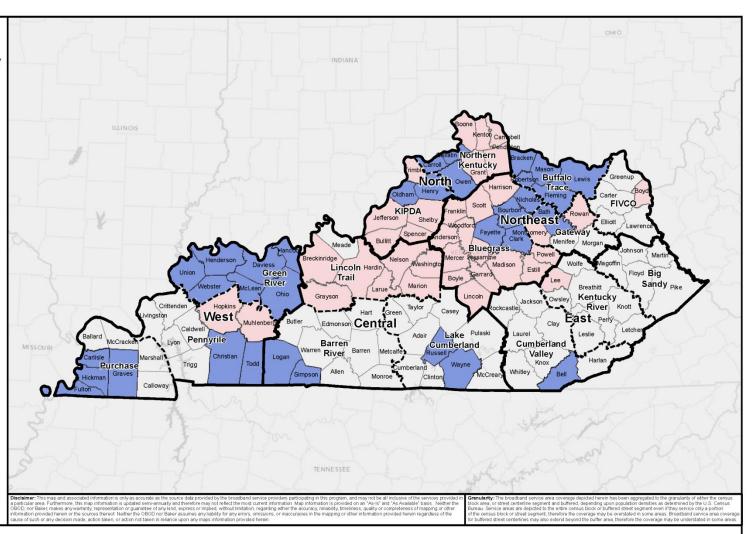
New Presence

No Change in Presence

Boundary

Region

County





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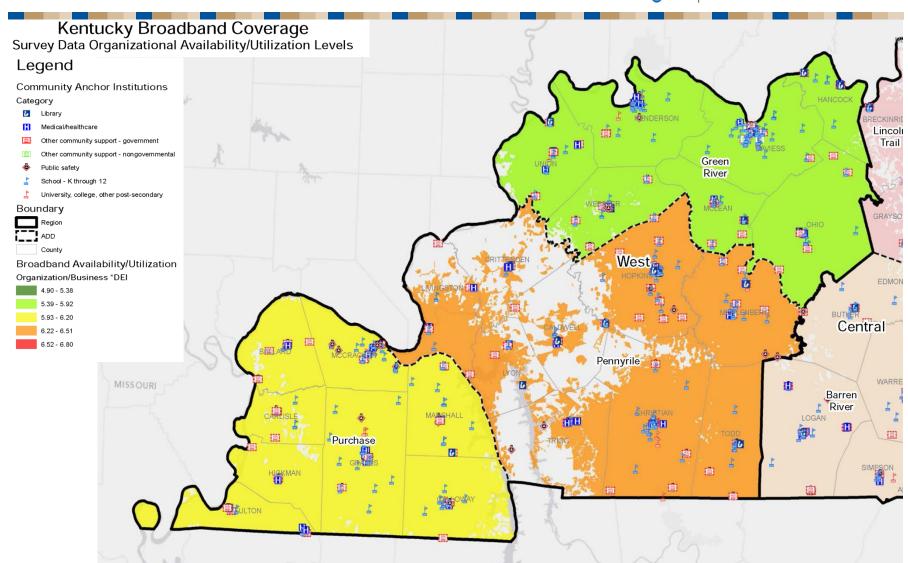


Kentucky Broadband

SBI Reported Fixed Wireless Transmission Technology Presence by County

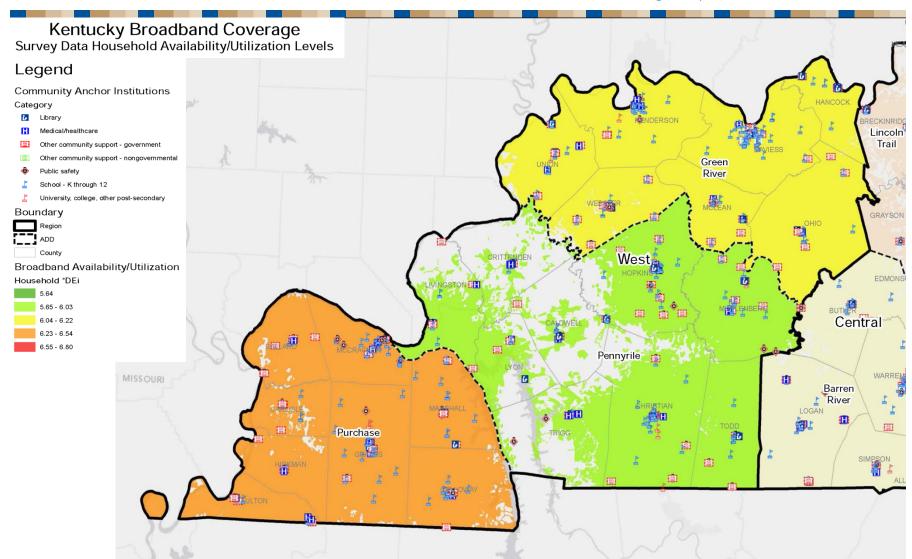
















Leveraging Broadband for Economic or Social Development





Objectives

- Establish a foundation for setting priorities for broadband planning and programs
- Provide and discuss data and analysis on broadband adoption, and utilization
- Identify strategies to effect changes to address regional priorities
- Identify resources and energize leaders

Does Broadband Really Matter?

Broadband retains and attracts population and businesses

The smaller the business, the bigger the Internet's impact on jobs and revenues

21% of households have a homebased business, with 11% planning to start one in the coming year

Businesses and organizations reported that 33.2% of new jobs created in 2011 were attributed to use of the Internet

59% of business and organizations said broadband is essential for remaining in current location

Regional and Community Impacts



Regional and community impacts include job creation and retention during shift

Impact of Internet on Jobs - Part 1

Firms by Number of Employees	New Jobs	Lost Jobs	Net Jobs	# of Organizations	Current Employees
0 - 19	1,638	1,708	-70	542	10,179
20 - 49	1,146	1,274	-128	244	12,370
50 - 99	1,117	1,638	-521	292	13,905
100 - 499	3,308	2,684	624	763	40,757
500 or more	2,510	2,234	276	639	57,366
	9,719	9,538	181	2,480	134,577

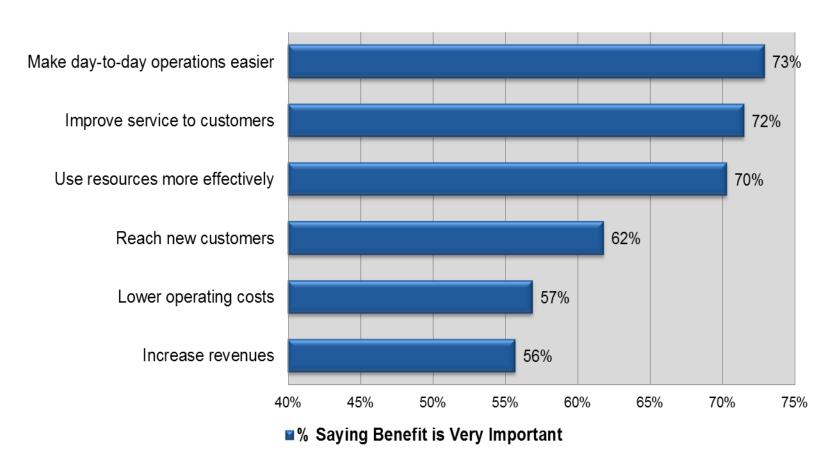
Surveys across three states in 2010 and 1012

Impact of Internet on Jobs - Part 2

Firms by Number of Employees	New Jobs from Internet Use as % of all New Jobs	Share of All New Internet jobs	New Jobs from Internet Use	Lost Jobs from Internet Use	Net Jobs from Internet Use
0 - 19	33.1%	21.9%	542	111	431
20 - 49	21.3%	9.8%	244	16	228
50 - 99	26.1%	11.8%	292	40	252
100 - 499	23.1%	30.8%	763	61	702
500 or more	25.5%	25.8%	639	2	637
	25.5%	100.0%	2,480	230	2,250

The Importance of Utilization

Six top benefits of Internet reported by businesses and organizations are:



So What?

Yes, broadband matters. But isn't integration of broadband into our region and economy already happening all around us?

Not for everyone or for all communities. The digital divide is real, and so are its impacts.

Utilization of the Internet varies
greatly among businesses, organizations and
households,
with major impacts on productivity and
competitiveness

DEi by Organizations and Businesses

Region	Rank	Median DEi	Difference from Median	# Establishments
North	1	6.70	0.29	483
Central	2	6.60	0.19	443
Northeast	3	6.31	-0.10	581
West	4	6.31	-0.10	458
East	5	6.21	-0.20	279
State Average		6.41		2,244

Internet Utilization by Employment Size

Smaller businesses are more likely to struggle to adopt new Internet applications and processes.

Employment Range	Median DEi Score	% of organizations in Kentucky
1 to 19	6.02	85.0%
20 to 49	6.89	9.5%
50 - 90	6.80	3.0%
250 or more	7.38	2.5%
All Size Ranges	6.41	

Impact of Income & Age on Internet Use

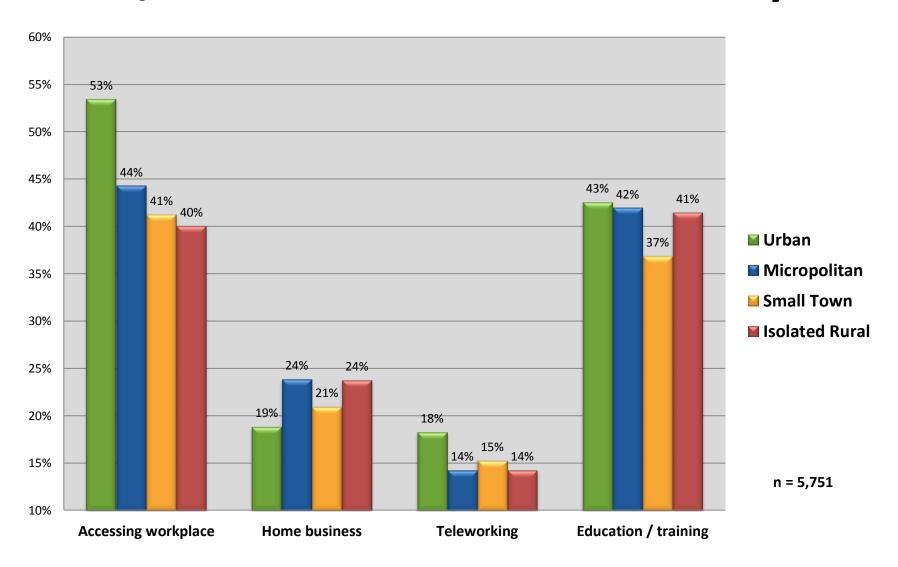
Age and income are significant determinants in adoption of Internet applications and process by households:

- The younger and the richer you are, the more you use
- > The older and the poorer you are, the less you use

	Household Income			
Respondent Age	Less than \$30,000	\$30,000 to \$49,999	\$50,000 to \$100,000	More than \$100,000
18 to 34 years	5.9	6.7	7.1	7.3
35 to 54 years	5.6	6.1	6.7	7.1
55 to 64 years	4.9	5.4	6.0	6.3
65 years and over	4.8	4.4	5.5	6.1
Overall	5.5	5.9	6.5	6.8

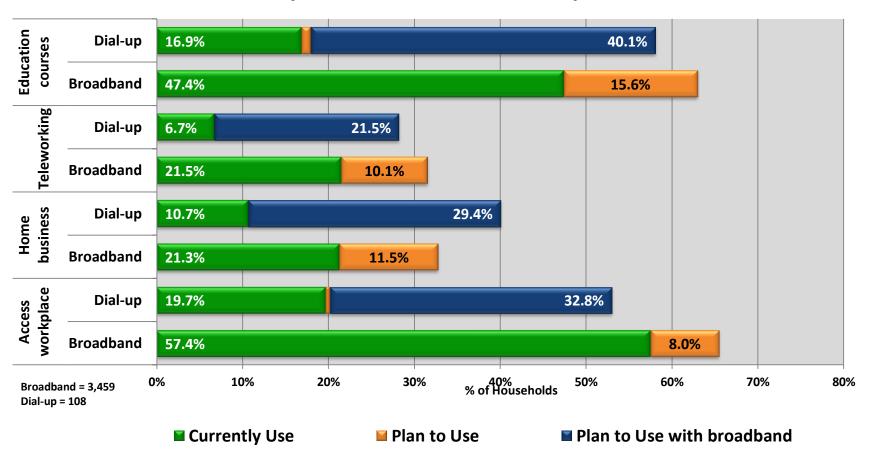
Overall
6.5
6.3
5.7
5.2

Rural / Urban Variation In Productivity Uses



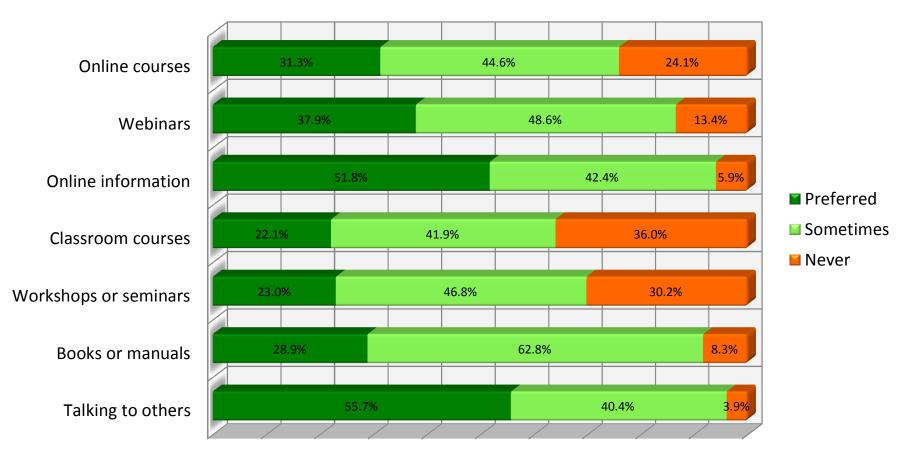
Broadband Availability - Household Impact

Potential Impact of Broadband on Dial-Up Households



Driving Adoption among Target Populations

Preferred Learning Methods for Seniors (65+)



Target the population that underutilizes and know how to reach them

Broadband's Value to Households Internet patterns of use depend on awareness

In the United States:

- ► 66% of households have broadband*
- ≥ 2/3 of Americans feel that broadband at home is important for finding out about jobs or learning career skills*
- Yet, 48% of non-Internet users do not go online because they do not see the value*



Connectivity ≠ Adoption ≠ Utilization

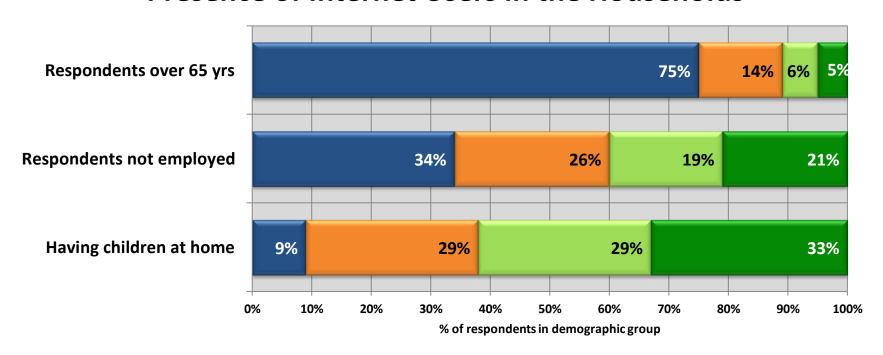
^{*}Source: Home Broadband 2010, Pew Internet & American Life Project





Non-Adopters and their Households

Presence of Internet Users in the Households



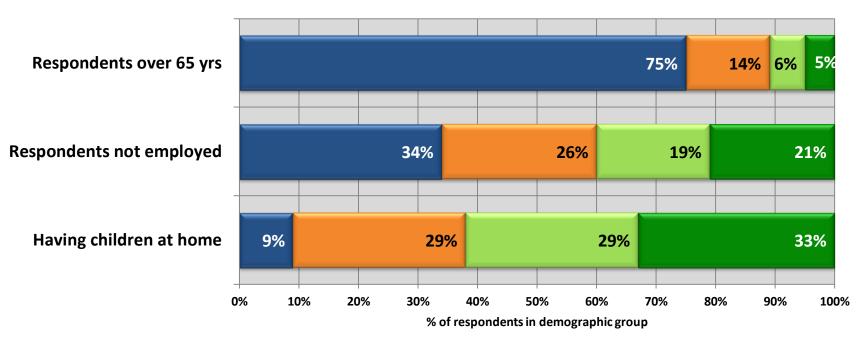
- No one in home uses the internet
- Someone else at home uses the internet at home
- Someone else at home uses the internet elsewhere
- Someone else at home uses the internet both at home and elsewhere





Causes of Non-adoption

Presence of Internet Users in the Households



- No one in home uses the internet
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Access to Public Internet Facilities

West Region		
Availability of Public Access Facilities	% of Establishments	# of Establishments
Weekdays	98.3%	57
Evenings	44.8%	26
Weekends	36.2%	21

Purchase ADD		
Availability of Public Access Facilities	Pct. Establishments	# Establishments
Weekdays	100%	24
Evenings	33.3%	8
Weekends	25.0%	6

Kentucky		
Availability of Public Access Facilities	Pct. Establishments	# Establishments
Weekdays	98%	241
Evenings	47%	115
Weekends	38%	95





Vision-Based / Goals-Based Strategic Planning

- **1. Establish a vision statement** This statement describes the future state of your community or target group at some point in the future.
- **2.** Select the goals your organization must reach if it is to effectively work toward and achieve your vision Goals are general statements about what you need to accomplish to meet your vision and address major issues. Goals should be designed and worded to be SMART (specific, measurable, acceptable to those working to achieve the goals, realistic, timely). The vision and goals might be long-range, for example, for 3-5 years into the future.
- 3. Identify specific approaches (or strategies) that must be implemented to reach each goal
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Kentucky's Broadband Mapping Initiative http://broadband.ky.gov

Kentucky's Broadband Mapping Viewer http://www.bakerbb.com/kybroadbandmapping/

Kentucky @ Work Broadband Page http://kentuckyatwork.ky.gov/Pages/Broadband.aspx

The US Broadband Plan http://www.broadband.gov/

The US Broadband Map (and Data Sets) http://broadbandmap.gov/

Broadband Mapping & Community Search Tool
http://broadbandsearch.sc.egov.usda.gov/DefaultARRA.aspx?program=ARRA

US FCC Broadband Opportunities Page http://wireless.fcc.gov/outreach/index.htm?job=broadband home

And, our interactive Facebook Page
http://www.facebook.com/KentuckyBroadband

Or through our office:

Commonwealth Office of Broadband
Outreach & Development

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